

Datasheet for ABIN7564951  
**SMC3 Protein (AA 1-1217) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	SMC3
Protein Characteristics:	AA 1-1217
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Smc3 Protein expressed in mammalian cells.
Sequence:	MYIKQVIIQG FRSYRDQTIV DPFSSKHNV I VGRNGSGKSN FFYAIQFVLS DEFSHLRPEQ RLALLHEGTG PRVISAFVEI IFDNSDNRLP IDKEEVSLRR VIGAKKDQYF LDKKMVTKND VMNLLSAGF SRSNPYYIVK QGKINQMATA PDSQRLKLLR EVAGTRVYDE RKEESISLMK ETEGKREKIN ELLKYIEERL HTLEEEKEEL AQYQKWDKMR RALEYTIYNQ ELNETRAKLD ELSAKRETSG EKSQR LRDAQ QDARDKMEDI ERQVRELKTK ISAMKEEKEQ LSAERQEIQK QRTKLELKAK DLQDELAGNS EQRKRLKER QKLEKIEEK QKELAEPEK FNSVKEKEER GIARLAQATQ ERTDLYAKQG RGSQFTSKEE RDKWIKKELK SLDQAINDKK RQIAAIHKDL EDTEANKEKN LEQYNKLDQD LNEVKARVEE LDRKYEVKN KKDELQSERN YLWREENAEQ QALAAKREDL EKKQQLLRAA TGKAILNGID SINKVLEHFR RKGINQHVQN GYHGIVMNNF ECEPAFYTCV EVTAGNRLFY HIVDSDEVST KILMEFNKMN LPGEVTFLPL NKLDVRDTAY PETNDAIPMI SKLRYNPRFD KAFKHVFGKT LICRSMEVST QLARAFTMDC ITLEGDQVSH RGALTGGYYD TRKSRELELQK DVRKAEELG ELEAKLNENL RRNIERINNE IDQLMNQMQQ

## Product Details

---

IETQQRKFKA SRDSILSEMK MLKEKRQSE KTFMPKQRSL QSLEASLHAM ESTRESLKAE  
LGTDLLSQLS LEDQKRVDAL NDEIRQLQQE NRQLLNERIK LEGIITRVET YLNENLRKRL  
DQVEQELNEL RETEGGTVLT ATTSELEAIN KRVKDTMARS EDLNSIDKT EAGIKELQKS  
MERWKNMEKE HMDAINHDTK ELEKMTNRQG MLLKKKEECM KKIRELGSLP QEAFEKYQTL  
SLKQLFRKLE QCNTELEKYS HVNKKALDQF VNFSEQKEKL IKRQEELDRG YKSIMELMN  
LLELRKYEAIQ LTFKQVSKNF SEVFQKLVPG GKATLVMKKG DVEGSQSQDE GEGSGESER  
SGSQSSVPSV DQFTGVGIRV SFTGKQGEEMR EMQQLSGGQK SLVALALIFA IQKCDPAPFY  
LFDEIDQALD AQHRKAVSDM IMELAVHAQF ITTTFRPELL ESADKFGYGVK FRNKVSHIDV  
ITAEMAKDFV EDDTTHG **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

---

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

---

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

---

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

---

Grade: custom-made

## Target Details

---

Target: SMC3

---

Alternative Name: Smc3 ([SMC3 Products](#))

## Target Details

---

**Background:** Structural maintenance of chromosomes protein 3 (SMC protein 3) (SMC-3) (Basement membrane-associated chondroitin proteoglycan) (Bamacan) (Chondroitin sulfate proteoglycan 6) (Chromosome segregation protein SmcD) (Mad member-interacting protein 1),FUNCTION: Central component of cohesin, a complex required for chromosome cohesion during the cell cycle. The cohesin complex may form a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. Cohesion is coupled to DNA replication and is involved in DNA repair. The cohesin complex also plays an important role in spindle pole assembly during mitosis and in chromosomes movement. {ECO:0000269|PubMed:10375619}.

**Molecular Weight:** 141.6 kDa

**UniProt:** [Q9CW03](#)

**Pathways:** [Stem Cell Maintenance](#)

## Application Details

---

**Application Notes:** We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

**Restrictions:** For Research Use only

## Handling

---

**Format:** Liquid

**Buffer:** The buffer composition is at the discretion of the manufacturer.

**Handling Advice:** Avoid repeated freeze-thaw cycles.

**Storage:** -80 °C

**Storage Comment:** Store at -80°C.

**Expiry Date:** 12 months